

PTO/SB/21 (09-04)

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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number

10/763,788

Filing Date

January 23, 2004

First Named Inventor

Gorsuch et al.

Art Unit

2617

Examiner Name

Joy Kimberly Contee

Attorney Docket Number

TAN-2-1401.05.US

ENCLOSURES (Check all that apply)

Fee Transmittal Form



Fee Attached



Amendment/Reply



After Final



Affidavits/declaration(s)



Extension of Time Request



Express Abandonment Request



Information Disclosure Statement



Certified Copy of Priority Document(s)

Reply to Missing Parts/
Incomplete ApplicationReply to Missing Parts
under 37 CFR 1.52 or 1.53

Drawing(s)



Licensing-related Papers



Petition

Petition to Convert to a
Provisional Application

Power of Attorney, Revocation



Change of Correspondence Address



Terminal Disclaimer



Request for Refund



CD, Number of CD(s) _____



Landscape Table on CD



After Allowance Communication to TC

Appeal Communication to Board
of Appeals and InterferencesAppeal Communication to TC
(Appeal Notice, Brief, Reply Brief)

Proprietary Information



Status Letter

Other Enclosure(s) (please identify
below):Form PTO-1449 (2) two pages
with 25 references cited.

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name

VOLPE AND KOENIG, P.C.

Signature

Printed name

Joseph P. Gushue

Date

August 7, 2007

Reg. No.

59,819

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature

Typed or printed name

Joseph P. Gushue

Date

August 7, 2007

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL **For FY 2006**

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180.00

Complete if Known

Application Number	10/763,788
Filing Date	January 23, 2004
First Named Inventor	Gorsuch et al.
Examiner Name	Joy Kimberly Contee
Art Unit	2617
Attorney Docket No.	TAN-2-1401.05.US

METHOD OF PAYMENT (check all that apply)
☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

☒ Deposit Account Deposit Account Number: 09-0435 Deposit Account Name: InterDigital Communications Corporation

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)
1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims	Fee (\$)	Fee Paid (\$)
-	=	x	=	0		

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	
-	=	x	=	0

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	/ 50 =	(round up to a whole number) x	=	

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Supplemental Information Disclosure Statement

Fees Paid (\$)

\$180.00

SUBMITTED BY

Signature	Joseph P. Gushue	Registration No.	Telephone 215-568-6400
Name (Print/Type)	Joseph P. Gushue	(Attorney/Agent)	Date August 7, 2007

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Gorsuch et al.

Application No.: 10/763,788

Confirmation No.: 7918

Filed: January 23, 2004

For: DYNAMIC BANDWIDTH ALLOCATION
TO TRANSMIT A WIRELESS PROTOCOL
ACROSS A CODE DIVISION MULTIPLE
ACCESS (CDMA) RADIO LINK

Group: 2617

Examiner: Joy Kimberly Contee

Our File: TAN-2-1401.05.US

Date: August 7, 2007

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendments
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

08/15/2007 WASFAW1 00000001 090435 10763788
01 FC:1806 180.00 DA

Sir:

Further to Applicants' Duty of Disclosure pursuant to 37 C.F.R. §1.56, Applicants wish to bring to the Examiner's attention the material cited on the enclosed Form PTO-1449.

The listed references include references previously cited in this application. Newly cited documents are indicated by an asterisk (*) on the enclosed Form PTO-1449. Copies of the newly cited documents are enclosed. Pursuant to 37 C.F.R. §1.98(a)(2)(ii), copies of the newly cited U.S. publications and/or patent documents have not been included.

This Information Disclosure Statement is being filed with the fee required by 37

C.F.R. § 1.17(p).

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the Form PTO-1449 indicating his consideration of the cited materials.

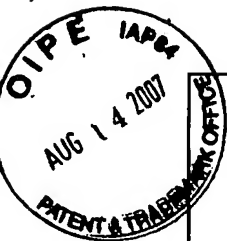
Respectfully submitted,

Gorsuch et al.

By Joseph P. Gushue
Joseph P. Gushue
Registration No. 59,819
(215) 568-6400

Volpe and Koenig, P.C.
United Plaza, Suite 1600
30 South 17th Street
Philadelphia, PA 19103

JPG/ci
Enclosures



FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO. TAN-2-1401.05.US	SERIAL NO. 10/763,788
	APPLICANT Gorsuch et al.	
	FILING DATE January 23, 2004	GROUP 2617

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	*	4,107,469	08/15/1978	Jenkins			
	*	4,577,316	03/18/1986	Schiff			
	*	4,625,308	11/25/1986	Kim et al.			
		4,675,863	06/23/1987	Paneth et al.			
		4,817,089	03/28/1989	Paneth et al.			
		4,841,526	06/20/1989	Wilson et al.			
	*	4,862,453	08/29/1989	West et al.			
	*	4,866,709	09/12/1989	West et al.			
		4,912,705	03/27/1990	Paneth et al.			
		4,949,395	08/14/1990	Rydbeck			
		5,022,024	06/04/1991	Paneth et al.			
	*	5,027,348	06/25/1991	Curry			
		5,027,400	06/25/1991	Baji et al.			
		5,114,375	05/19/1992	Wellhausen et al.			
	*	5,115,309	05/19/1992	Hang			
		5,226,044	07/06/1993	Gupta et al.			
	*	5,268,900	12/07/1993	Hluchyj et al.			
		5,282,222	01/25/1994	Fattouche et al.			
		5,325,419	06/28/1994	Connolly et al.			
		5,355,374	11/11/1994	Hester et al.			
		5,373,502	12/13/1994	Turban			
	*	5,375,124	12/20/1994	D'Ambrogio, et al.			
	*	5,388,102	02/07/1995	Griffith et al.			
	*	5,394,473	02/28/1995	Davidson			
		5,412,429	05/02/1995	Glover			

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	APPLICANT Gorsuch et al.	
	FILING DATE January 23, 2004	GROUP 2617

		5,442,625	08/15/1995	Gitlin et al.			
	*	5,463,629	10/31/1995	Ko			
		5,471,463	11/28/1995	Hulbert			
		5,585,850	12/17/1996	Schwaller			
		5,592,470	01/04/1997	Rudrapatna et al.			
		5,592,471	01/07/1997	Briskman			
	*	5,606,580	02/25/1997	Mourot et al.	Corresponds to 0635949EP		
		5,617,423	04/01/1997	Li et al.			
		5,642,348	06/24/1997	Barzegar et al.			
		5,655,001	08/05/1997	Cline et al.			
		5,657,358	08/12/1997	Panech et al.			
	*	5,663,958	09/02/1997	Ward			
		5,663,990	09/02/1997	Bolgiano et al.			
		5,673,259	09/30/1997	Quick, Jr.			
		5,687,194	11/11/1997	Paneth et al.			
		5,697,059	12/09/1997	Carney			
	*	5,699,364	12/16/1997	Sato et al.			
	*	5,781,542	07/14/1998	Tanaka et al.			
		5,734,646	03/31/1998	I et al.			
		5,784,406	07/21/1998	DeJaco et al.			
		5,790,551	08/04/1998	Chan			
		5,793,744	08/11/1998	Kanerva et al.			
		5,802,465	09/01/1998	Hamalainen et al.			
	*	5,825,807	10/20/1998	Kumar			
		5,828,659	10/27/1998	Teder et al.			
		5,828,662	10/27/1998	Jalali et al.			
		5,844,894	12/01/1998	Dent			

EXAMINER	DATE CONSIDERED
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<p>FORM PTO-1449</p> <p>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p>	<p>ATTY. DOCKET NO. TAN-2-1401.05.US</p>	<p>SERIAL NO. 10/763,788</p>
	<p>APPLICANT Gorsuch et al.</p>	
	<p>FILING DATE January 23, 2004</p>	<p>GROUP 2617</p>

	*	5,845,211	12/01/1998	Roach			
	*	5,854,786	12/29/1998	Henderson et al.			
		5,856,971	01/05/1999	Gitlin et al.			
		5,859,840	01/12/1999	Tiedemann, Jr. et al.			
	*	5,859,879	01/12/1999	Bolgiano et al.			
		5,872,786	02/16/1999	Shobatake			
		5,881,060	03/09/1999	Morrow et al.			
		5,896,376	04/20/1999	Alperovich et al.			
		5,910,945	06/08/1999	Garrison et al.			
		5,914,950	06/22/1999	Tiedemann, Jr. et al.			
		5,923,650	07/13/1999	Chen et al.			
		5,930,230	07/27/1999	Odenwalder et al.			
		5,950,131	09/07/1999	Vilmur			
		5,956,332	09/21/1999	Rasanen et al.			
		5,966,374	10/12/1999	Rasanen			
		5,991,279	11/23/1999	Haugli et al.			
	*	6,001,800	12/14/1999	Mehta et al.			
		6,002,690	12/14/1999	Takayama et al.			
	*	6,009,106	12/28/1999	Rustad et al.			
		6,005,855	12/21/1999	Zehavi et al.			
		6,011,800	01/04/2000	Nadgauda et al.			
		6,028,868	02/22/2000	Yeung et al.			
	*	6,052,385	04/18/2000	Kanerva et al.			
		6,064,678	05/16/2000	Sindhushayana et al.			
		6,069,883	05/30/2000	Ejzak et al.			
		6,078,572	06/20/2000	Tanno et al.			
		6,081,536	06/27/2000	Gorsuch et al.			
		6,088,335	07/11/2000	I et al.			
EXAMINER				DATE CONSIDERED			

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	*	6,097,733	8/01/2000	Basu et al.			
	*	6,111,863	08/29/2000	Rostoker et al.			
		6,112,092	08/29/2000	Benveniste			
		6,134,233	10/17/2000	Kay			
	*	6,151,332	11/21/2000	Gorsuch et al.			
		6,157,619	12/05/2000	Ozluturk et al.			
		6,161,013	12/12/2000	Anderson et al.			
		6,196,362	02/27/2001	Darcie et al.			
	*	6,198,723	03/06/2001	Parruck et al.			
		6,208,871	03/27/2001	Hall et al.			
		6,215,798	04/10/2001	Carneheim et al.			
		6,222,828	04/24/2001	Ohlson et al.			
	*	6,236,647	05/22/2001	Amalfitano			
		6,243,372	06/05/2001	Petch et al.			
		6,259,683	07/10/2001	Sekine et al.			
		6,262,980	07/17/2001	Leung et al.			
		6,269,088	07/31/2001	Masui et al.			
		6,272,168	08/07/2001	Lomp et al.			
		6,285,665	09/04/2001	Chuah			
		6,307,840	10/23/2001	Wheatley III et al.			
		6,310,859	10/30/2001	Morita et al.			
		6,366,570	04/02/2002	Bhagalia			
	*	6,370,117	04/09/2002	Koraitim et al.			
		6,373,830	04/16/2002	Ozluturk			
		6,373,834	04/16/2002	Lundh et al.			
		6,377,548	04/23/2002	Chuah			
		6,377,809	04/23/2002	Rezaiifar et al.			
	*	6,388,999	05/14/2002	Gorsuch et al.			
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	FILING DATE January 23, 2004	GROUP 2617

		6,389,000	05/14/2002	Jou			
		6,396,804	05/28/2002	Odenwalder			
		6,418,148	07/09/2002	Kumar et al.			
		6,456,608	09/24/2002	Lomp			
		6,469,991	10/22/2002	Chuah			
		6,473,623	10/29/2002	Benveniste			
		6,504,830	01/07/2003	Östberg et al.			
		6,519,651	02/11/2003	Dillon			
		6,526,039	02/25/2003	Dahlman et al.			
	*	6,526,064	02/25/2003	Bousquet <small>Corresponds to 2761357 FR</small>			
		6,526,281	02/25/2003	Gorsuch et al.			
		6,532,365	03/11/2003	Anderson et al.			
	*	6,542,481	04/01/2003	Foore et al.			
		6,545,986	04/08/2003	Stellakis			
		6,567,416	05/20/2003	Chuah			
		6,570,865	05/27/2003	Masui et al.			
		6,571,296	05/27/2003	Dillon			
		6,574,211	06/03/2003	Padovani et al.			
		6,597,913	07/22/2003	Natarajan			
	*	2004/0160910	08/19/2004	Gorsuch et al.			
		2004/0180696	09/16/2004	Foore et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	*	443061	08/1991	EP			X ¹	
		526106	02/03/1993	EP				

EXAMINER	DATE CONSIDERED
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	APPLICANT Gorsuch et al.	
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	*	635949 <small>Corresponds to US5606580</small>	01/1995	EP			X	
		682423	11/15/1995	EP				
	*	682426	11/15/1995	EP				
		719062	06/26/1996	EP				
	*	2761557 <small>Corresponds to US6526064</small>	01/1998	FR			X	
		95/08900	03/30/1995	WO				
		96/08934	03/21/1996	WO				
	*	96/27994	12/09/1996	WO				
		96/37081	11/21/1996	WO				
		97/23073	06/26/1997	WO				
	*	97/32412	04/09/1997	WO				
		97/46044	12/04/1997	WO				

OTHER DOCUMENTS

EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
	Chih-Lin I et al., Multi-Code CDMA Wireless Personal Communications Networks, June 18, 1005.
	Chih-Lin I et al., IS-95 Enhancements for Multimedia Services, Bell Labs Technical Journal, Pages 60-87, Autumn 1996.
	Chih-Lin I et al., Performance of Multi-Code CDMA Wireless Personal Communications Networks, July 25, 1995.
	Liu et al., Channel Access and Interference Issues in Multi-Code DS-CDMA Wireless Packet (ATM) Networks, Wireless Networks 2, Pages 173-196, 1996.

EXAMINER	DATE CONSIDERED
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	APPLICANT Gorsuch et al.	
	FILING DATE January 23, 2004	GROUP 2617

		Chih-Lin I et al., Load and Interference Based Demand Assignment (LIDA) for Integrated Services in CDMA Wireless Systems, November 18, 1996, Pages 235-241.
		Budka et al., Cellular Digital Packet Data Networks, Bell Labs Technical Journal, Summer 1997, Pages 164-181.
		Cellular Digital Packet Data, System Specification, Release 1.1, January 19, 1995.
		Data Standard, Packet Data Section, PN-3676.5 (to be published as TIA/EIA/IS-DATA.5), December 8, 1996, Version 02 (Content Revision 03).
		Data Service Options for Wideband Spread Spectrum Systems: Introduction, PN-3676. 1 (to be published as TIA/EIA/IS-707.1), March 20, 1997 (Content Revision 1).
		Packet Data Service Option Standard for Wideband Spread Spectrum Systems, TIA/EIA Interim Standard, TIA/EIA/IS-657, July 1996.
		Mobile Station-Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System, TIA Interim Standard, TIA/EIA/IS-95-A (Addendum to TIA/EIA/IS-95), May 1995.
		Mobile Station-Base Station Compatibility Standard for Wideband Spread Spectrum Cellular Systems, TIA/EIA Standard, TIA/EIA-95-B (Upgrade and Revision of TIA/EIA-95-A), March 1999.
		Network Wireless Systems Offer Business Unit (NWS OBU), Feature Definition Document for Code Division Multiple Access (CDMA) Packet Mode Data Services, FDD-1444, November 26, 1996.
		Draft Text for "95C" Physical Layer (Revision 4), Part 2, Document #531-981-20814-95C, part 2 on 3GPP2 website (ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-98120814-95c,%20part%202.pdf , 1998).
		Draft Text for "95C" Physical Layer (Revision 4), Part 1, Document #531-981-20814-95C, Part 1 on 3GPP2 website (ftp://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-98120814-95c,%20part%201.pdf).
		Reed et al., Iterative Multiuser Detection for CDMA with FEC: Near-Single-User Performance, IEEE Transactions on Communications, Vol. 46, No. 12, December 1998, Pages 1693-1699.
		Hindelang et al., Using Powerful "Turbo" Codes for 14.4 Kbit/s Data Service in GSM or PCS Systems, IEEE Global Communications Conference, Phoenix, Arizona, USA, November 3-8, 1997, Vol. II, Pages 649-653.

EXAMINER	DATE CONSIDERED
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